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Patent
Attorney Docket: LYNN/0083

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Zoran Minevski, et al.

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containing iron and a cathode in fluid communication with the anode in a cell circulating different electrolytes including NaOH, KOH and a combination thereof;

6. That pages 15 and 16 of Exhibit 1 show experimental results of the electrochemical production of ferrates using KOH , NaOH and a combination thereof as the electrolyte in the electrochemical cell as described above;
7. That while the copy of the *Patent Disclosure No. 103* presented in Exhibit 1 has been changed by deleting the dates, the document was produced prior to March 29, 2001.

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SEP-23-2004 THU 01:05 PM STREETS & STEELE

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P. 20

Patent
Attorney Docket: LYNN/0083

EXHIBIT I

Project No. _____
Book No. _____

TITLE _____

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Electrochemical Ferrire Preparation

Conditions: 500 mL of 10M NaOH, 10M KOH solution
 batch reaction with no membrane separation
 ~ 50g 1006 steel wire as anode ($SA = 152.7 \text{ cm}^2$)
 1010 small plates as cathode
 Controlled Current: 2.0 Amps
 Controlled Temperature: 45-50°C

	Time (min)	Temperature (°C)	Current (Amps)	Voltage (V)	dilution	Ahrs	Concentration (mM)
P22-4	0	37°	18.7	3.5		-	-
13-16	5	44°	20.0	4.3	1/20	0.100	1,969
23	10	48°	20.0	4.4	1/20	0.216	4,037
34	15	48°	20.0	4.4	1/20	0.298	5,303
42	20	48°	20.0	4.5	1/20	0.408	7,626
36	25	48°	20.0	4.5	1/20	0.486	9,084
62	30	47°	20.0	4.5	1/20	0.590	11,018
78	35	47°	20.0	4.6	1/20	0.678	12,673
8A	40	47°	20.0	4.6	1/20	0.810	15,140
9/10	45	47°	20.0	4.6	1/20	0.917	16,411
10	50	47°	20.0	4.6	1/20	0.947	17,701
11	55	47°	20.0	4.6	1/20	1.015	18,923
12	60	47°	20.0	4.6	1/20	1.147	21,376
13	70	49°	20.0	4.6	1/20	1.261	23,570
14	80	48°	20.0	4.7	1/20	1.428	26,692
15	90	48°	20.0	4.7	1/20	1.585	29,626
16					q free dilution and scaling 1/20	1.592	29,757

To Page No. _____

Witnessed & Understood by me,

Date

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